

Resource Summary Report

Generated by [RRID](#) on Aug 27, 2026

CA-RIT-NFAT1 (IRES-GFP)

RRID:Addgene_85181

Type: Plasmid

Proper Citation

RRID:Addgene_85181

Plasmid Information

URL: <http://www.addgene.org/85181>

Proper Citation: RRID:Addgene_85181

Insert Name: CA-RIT-NFAT1

Organism: Mus musculus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:25680272](#)

Vector Backbone Description: Backbone Marker:Anjana Rao lab; Vector Backbone:pRV; Vector Types:Mammalian Expression, Retroviral; Bacterial Resistance:Ampicillin

Comments: RIT mutations (R468, I469, and T535) selectively interfere with NFAT:AP-1 interaction

Plasmid Name: CA-RIT-NFAT1 (IRES-GFP)

Relevant Mutation: Amino acids 1-3 removed; CA: PASSGSSASF mutated to PAAAGAAAAF, SPRTSPIMSP mutated to APRTAPIMAP, SPQRSRSPSPQPSP mutated to APQRARSPAPQPAP. RIT:R468A, I469A, T535G

Record Creation Time: 20220422T222549+0000

Record Last Update: 20260815T082122+0000

Ratings and Alerts

No rating or validation information has been found for CA-RIT-NFAT1 (IRES-GFP).

No alerts have been found for CA-RIT-NFAT1 (IRES-GFP).

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 3 mentions in open access literature.

Listed below are recent publications. The full list is available at [RRID](#) .

Chen WL, et al. (2025) Differential regulation of calcium-NFAT signaling pathway by Akt isoforms: unraveling effector dynamics and exhaustion of cytotoxic T lymphocytes in tumor microenvironment. Journal for immunotherapy of cancer, 13(3).

Ma S, et al. (2025) Nutrient-driven histone code determines exhausted CD8+ T cell fates. Science (New York, N.Y.), 387(6734), eadj3020.

Zhu L, et al. (2022) Dapl1 controls NFATc2 activation to regulate CD8+ T cell exhaustion and responses in chronic infection and cancer. Nature cell biology, 24(7), 1165.